



Replacement Sheet

Fig. 1A

P6 Acil
2931 2905 2907 2909 2911
25bp 2904 2906 2908 2910

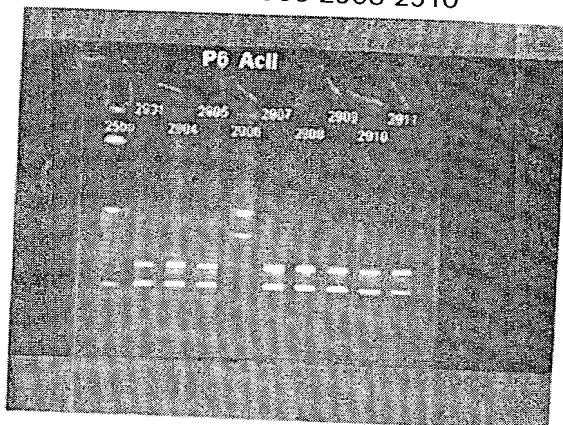


Fig. 1B

P6 Acil
2912 2926 2956 2969
25bp 2913 2931 2960 2975

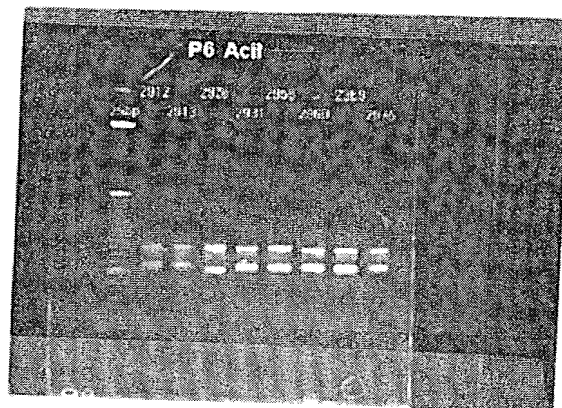


Fig. 1C

P6 Alul
2931 2905 2907 2909 2911
25bp 2904 2906 2908 2910

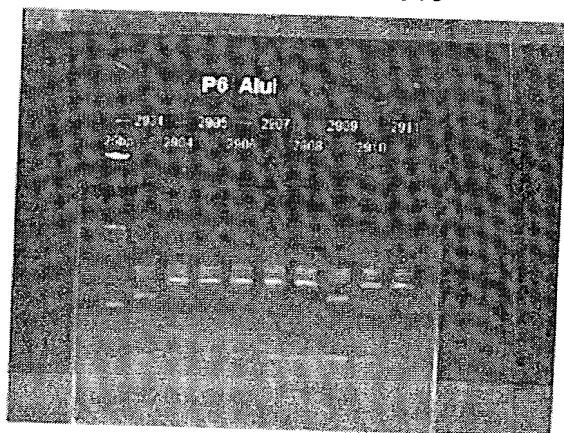
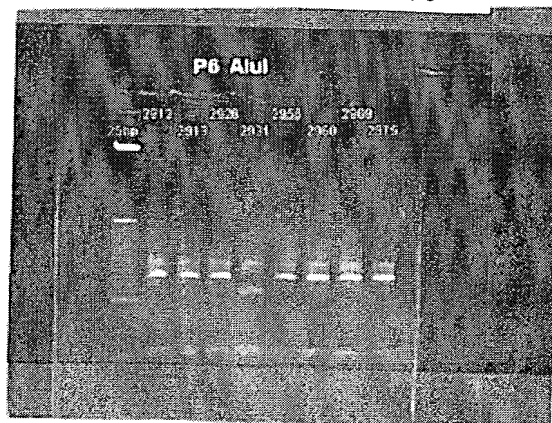


Fig. 1D

P6 Alul
2912 2926 2956 2969
25bp 2913 2931 2960 2975





Replacement Sheet

Fig. 1E

P6 BbvI
2931 2905 2907 2909 2911
25bp 2904 2906 2908 2910

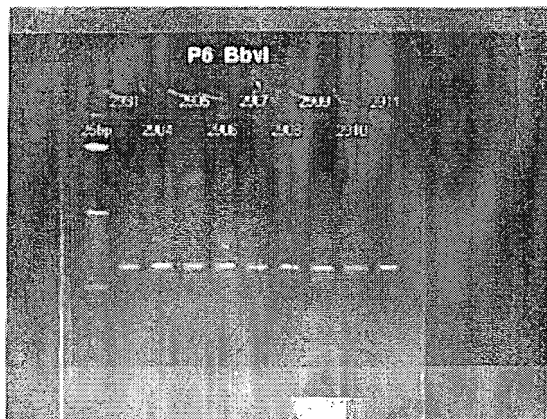
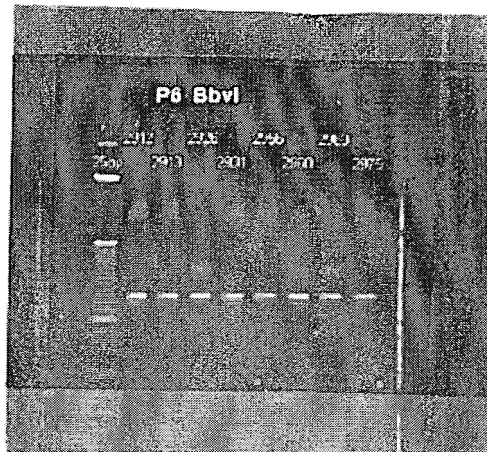


Fig. 1F

P6 BbvI
2912 2926 2956 2969
25bp 2913 2931 2960 2975





Replacement Sheet

Fig. 1G

P6 MaeII
2931 2905 2907 2909 2911
25 bp 2904 2906 2908 2910

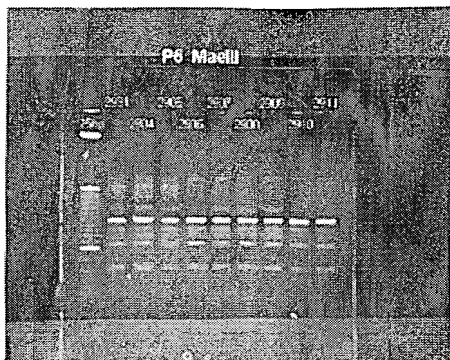


Fig. 1H

P6 MaeII
2912 2926 2956 2969
25 bp 2913 2931 2960 2975

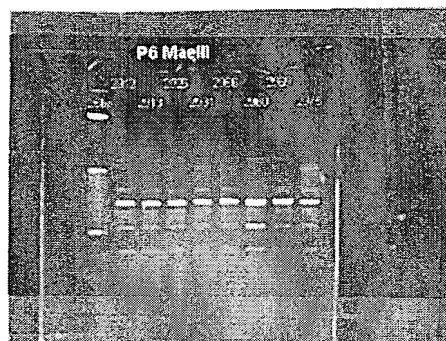


Fig. 1I

P6 MseI
2931 2905 2907 2909 2911
25 bp 2904 2906 2908 2910

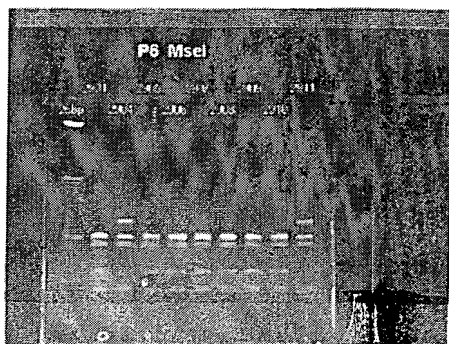
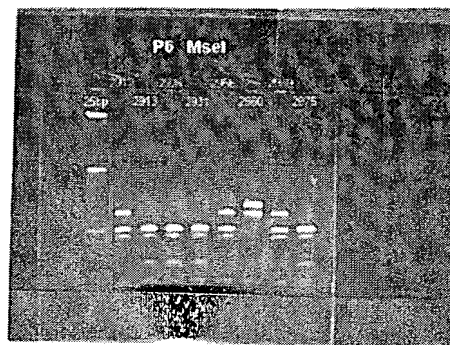


Fig. 1J

P6 MseI
2912 2926 2956 2969
25 bp 2913 2931 2960 2975





Replacement Sheet

Fig. 1K

P6 RsaI
2931 2905 2907 2909 2911
25 bp 2904 2906 2908 2910

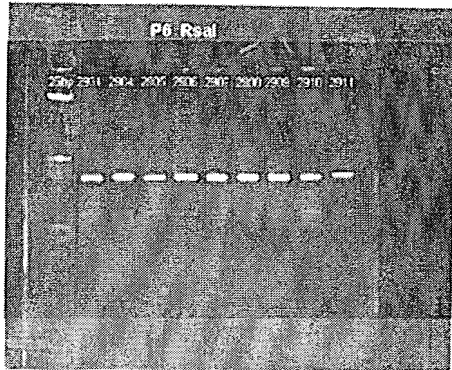
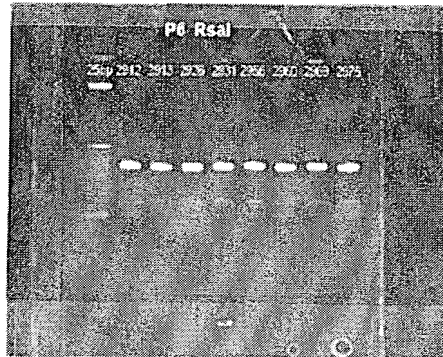


Fig. 1L

P6 RsaI
2912 2926 2956 2969
25 bp 2913 2931 2960 2975





Replacement Sheet

Fig. 2A

Identity to SeqID No:1 is indicated by a dot.

	*	20	*	40	*
Seqid1	:	ATGATGTTACATATTCAAATTGCCGCCGCTGCCGCCGCTTTATCGGTACT			
	:	50			
Seqid3	:			
	:	50			
Seqid5	:			
	:	50			
Seqid7	:T.....			
	:	50			

	60	*	80	*	100
Seqid1	:	AACTTTTATGACAGGCTGTGCCAATAAATCAACAAGTCAAGTTATGGTTG			
	:	100			
Seqid3	:			
	:	100			
Seqid5	:			
	:	100			
Seqid7	:			
	:	100			

	*	120	*	140	*
Seqid1	:	CTCCTAATGCACCCACAGGTTACACTGGGGTTATCTATACTGGTGTGCA			
	:	150			
Seqid3	:			
	:	150			
Seqid5	:			
	:	150			
Seqid7	:G.....G.....C.....C.....			
	:	150			



Replacement Sheet

Fig. 2B

	160	*	180	*	200
Seqid1	: CCTTTGGTAGATAATGATGAGACCGTTAAGGCTCTGGCAAGCAAGCTACC				
: 200					
Seqid3	:		A.....	C.....	
: 200					
Seqid5	:	TA.C...	A..T.....	C.....	
: 200					
Seqid7	:	C.....	T.....	C.....	
: 200					

	*	220	*	240	*
Seqid1	: CAGTTTGGTTTATTTTGACTTTGATTCTGATGAGATTAAACCGCAAGCTG				
: 250					
Seqid3	:				
: 250					
Seqid5	:				
: 250					
Seqid7	:				
: 250					

	260	*	280	*	300
Seqid1	: CTGCCATCTTAGACGAACAAGCACAAATTTTAAACCACCAATCAAACAGCT				
: 300					
Seqid3	:				
: 300					
Seqid5	:				
: 300					
Seqid7	:				
: 300					



Replacement Sheet

Fig. 2C

 * 320 * 340 *

Seqid1 : CGTGTTTTGGTTGCAGGTCATACCGATGAGCGTGGTAGTCGTGAGTATAA
: 350

Seqid3 :
: 350

Seqid5 :
: 350

Seqid7 :
: 350

 360 * 380 * 400

Seqid1 : TATGTCACTGGGGGAACGCCGTGCGGTGGCGGTACGCAACTATTTGCTTG
: 400

Seqid3 :T.....
: 400

Seqid5 :
: 400

Seqid7 :A
: 400

 * 420 * 440 *

Seqid1 : GTAAAGGCATTAATCAAGCCAGCGTTGAGATTATCAGTTTTGGTGAAGAA
: 450

Seqid3 :
: 450

Seqid5 :
: 450

Seqid7 :C.....
: 450



Replacement Sheet

Fig. 2D

	460	*	480	*	500
Seqid1	:	CGCCCTATCGCATTTGGCACAAATGAAGAAGCATGGTCACAAAATCGTCG			
	:	500			
Seqid3	:			
	:	500			
Seqid5	:			
	:	500			
Seqid7	:			
	:	500			

	*
Seqid1	: TGCTGAACTGTCTTATTAA : 519
Seqid3	: : 519
Seqid5	: : 519
Seqid7	: : 519



Replacement Sheet

Fig. 3A

Identity to SeqID No:2 is indicated by a dot.

```
          *          20          *          40          *
Seqid2   :   MMLHIQIAAAAAALSVLTFMTGCANKSTSQVMVAPNAPTGYTGVIYTGVA
:   50
Seqid4   :   .....
:   50
Seqid6   :   .....
:   50
Seqid8   :   .....A.....
:   50
```

```
          60          *          80          *          100
Seqid2   :   PLVDNDETVKALASKLPSLVYFDFDSDEIKPQAAAILDEQAQFLTTNQTA
:   100
Seqid4   :   .....T.....
:   100
Seqid6   :   .....I.T...T.....
:   100
Seqid8   :   .....T.....
:   100
```

```
          *          120          *          140          *
Seqid2   :   RVLVAGHTDERGSREYNMSLGERRAVAVRNYLLGKGINQASVEIISFGEE
:   150
Seqid4   :   .....
:   150
Seqid6   :   .....
:   150
Seqid8   :   .....S.....
:   150
```



Replacement Sheet

Fig. 3B

160

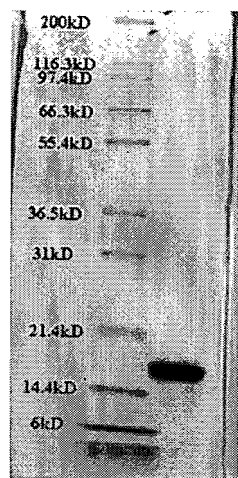
*

Seqid2 : RPIAFGTNEEAWSQNRRRAELSY : 172
Seqid4 : : 172
Seqid6 : : 172
Seqid8 : : 172



Replacement Sheet

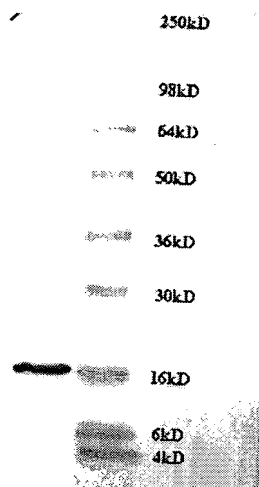
Figure 4: Coomassie stained SDS-PAGE of BASB019 protein





Replacement Sheet

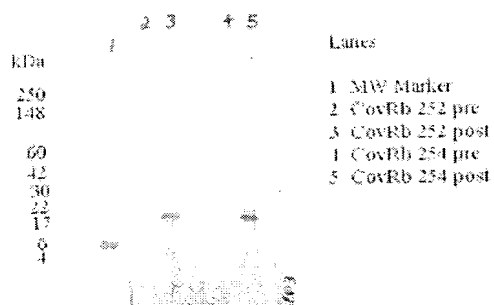
Figure 5: Western-blot with tetra-His antibody of BASB019 protein





Replacement Sheet

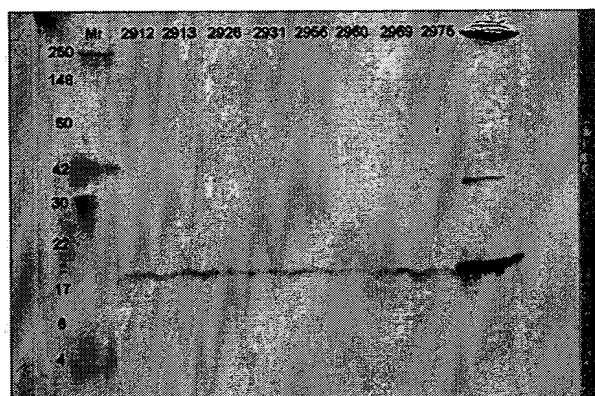
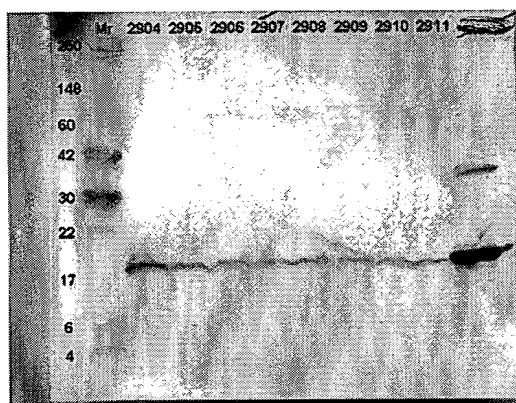
Figure 6: Western-blot of purified recombinant BASB019 protein probed with the corresponding anti-recombinant protein sera at 1:200





Replacement Sheet

Figure 7: Western-blot of whole cell lysates of 16 strains of *M. Catarrhalis* using pooled sera against the recombinant BASB019 protein. Sera was diluted 1:2000





Replacement Sheet

Figure 8: Western-blot of purified recombinant BSAB019 protein probed with pooled human convalescent sera at 1:100

